FIG. 1

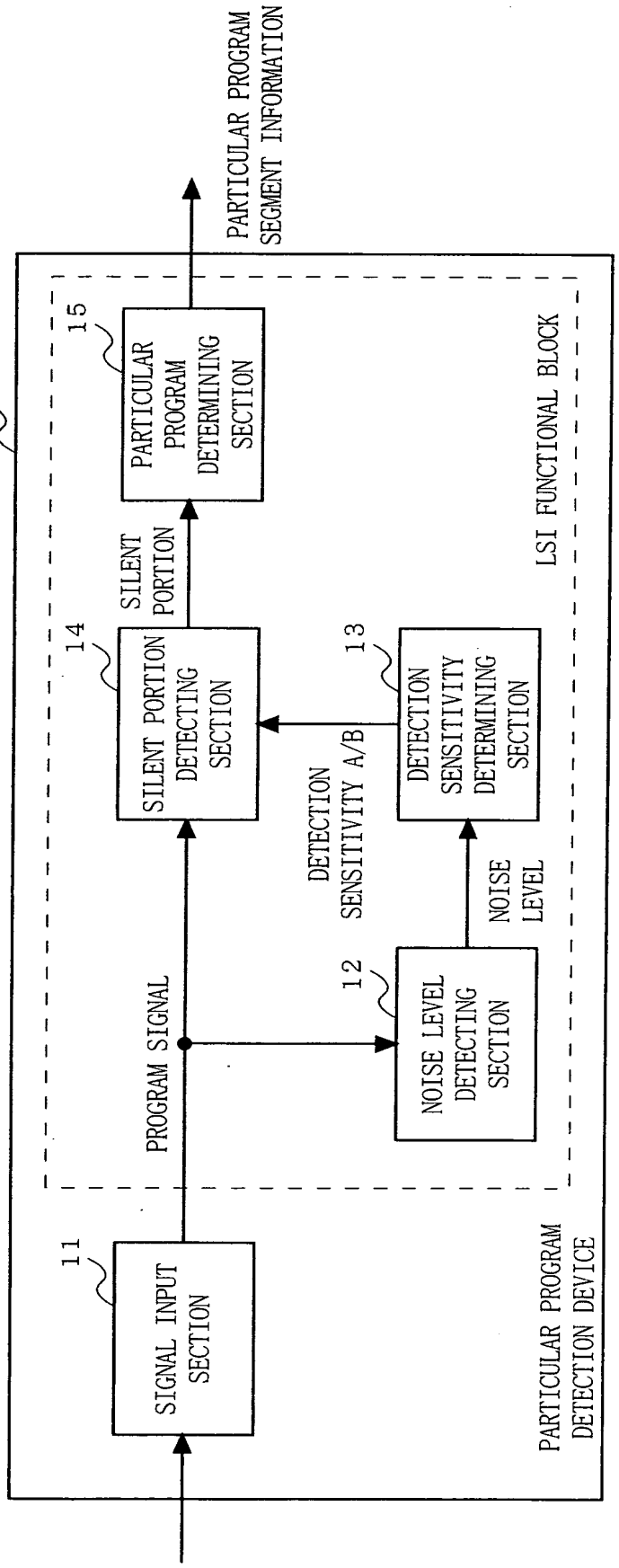

PARTICULAR PROGRAM SEGMENT INFORMATION
1
15
PARTICULAR PROGRAM DETERMINING SECTION
SILENT PORTION
14
SILENT PORTION DETECTING SECTION
13
DETECTION SENSITIVITY DETERMINING SECTION
LSI FUNCTIONAL BLOCK
DETECTION SENSITIVITY A/B
NOISE LEVEL
PROGRAM SIGNAL
12
NOISE LEVEL DETECTING SECTION
11
SIGNAL INPUT SECTION
PARTICULAR PROGRAM DETECTION DEVICE

FIG. 2

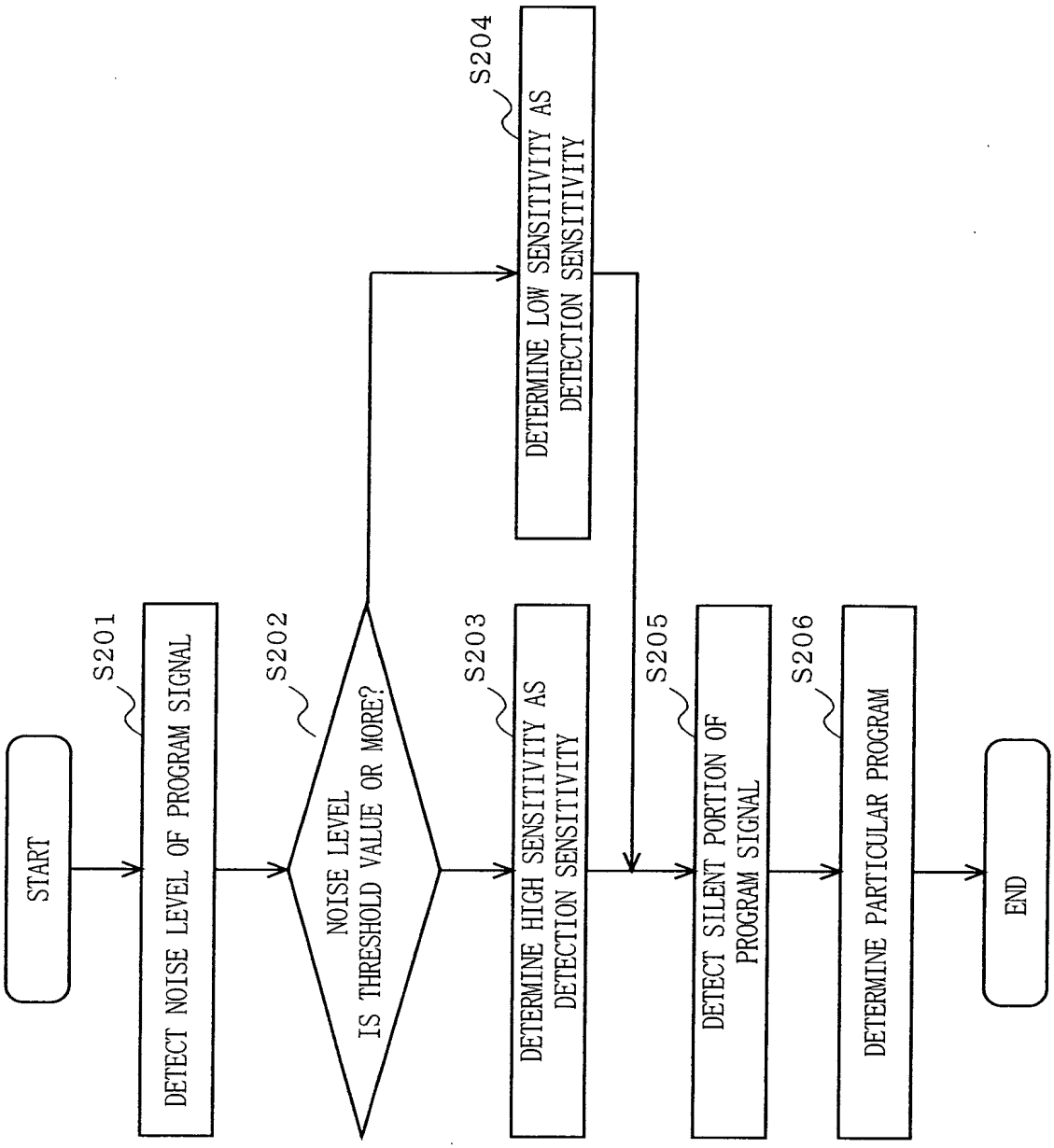

START
S201
DETECT NOISE LEVEL OF PROGRAM SIGNAL
S202
NOISE LEVEL IS THRESHOLD VALUE OR MORE?
S203
DETERMINE HIGH SENSITIVITY AS DETECTION SENSITIVITY
S204
DETERMINE LOW SENSITIVITY AS DETECTION SENSITIVITY
S205
DETECT SILENT PORTION OF PROGRAM SIGNAL
S206
DETERMINE PARTICULAR PROGRAM
END

FIG. 3A

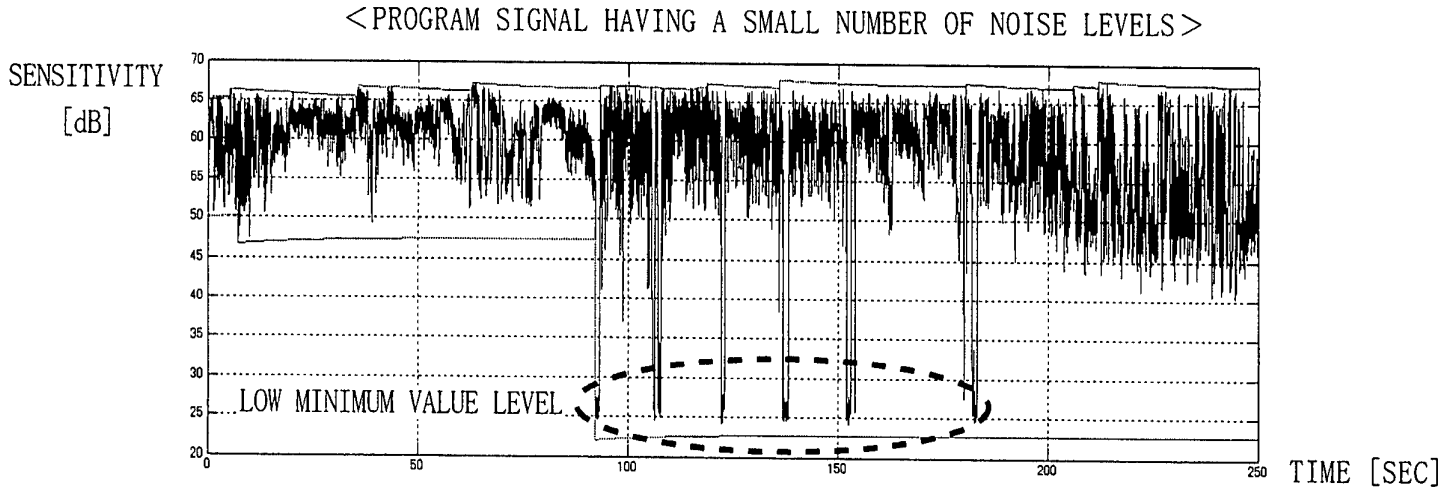

<PROGRAM SIGNAL HAVING A SMALL NUMBER OF NOISE LEVELS>
SENSITIVITY
[dB]
LOW MINIMUM VALUE LEVEL
TIME [SEC]

FIG. 3B

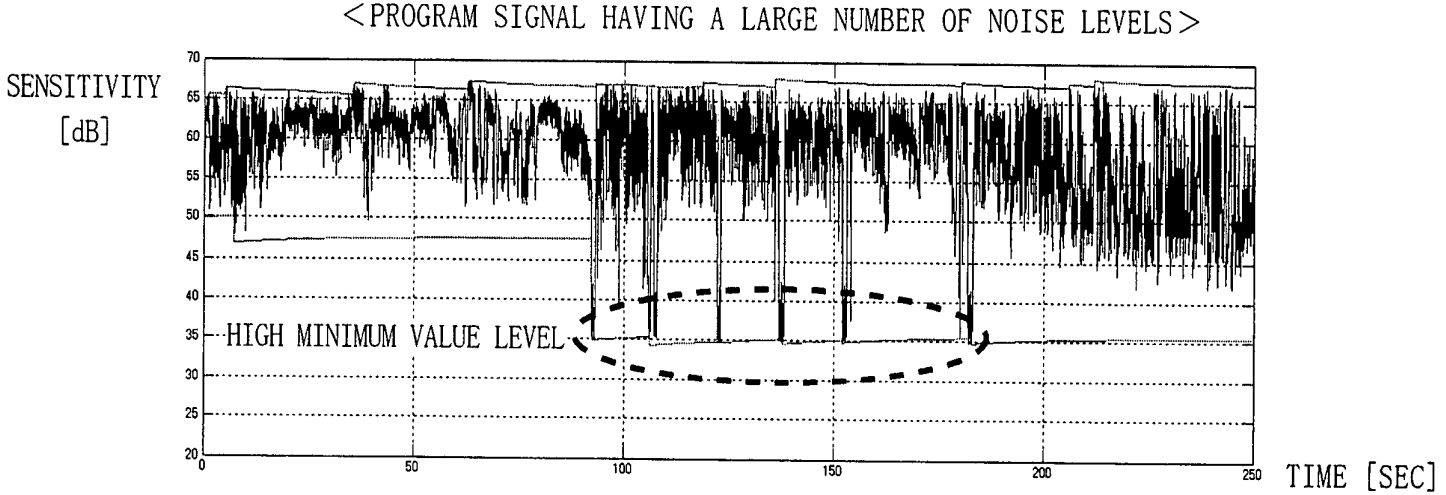

<PROGRAM SIGNAL HAVING A LARGE NUMBER OF NOISE LEVELS>
SENSITIVITY
[dB]
HIGH MINIMUM VALUE LEVEL
TIME [SEC]

FIG. 4A

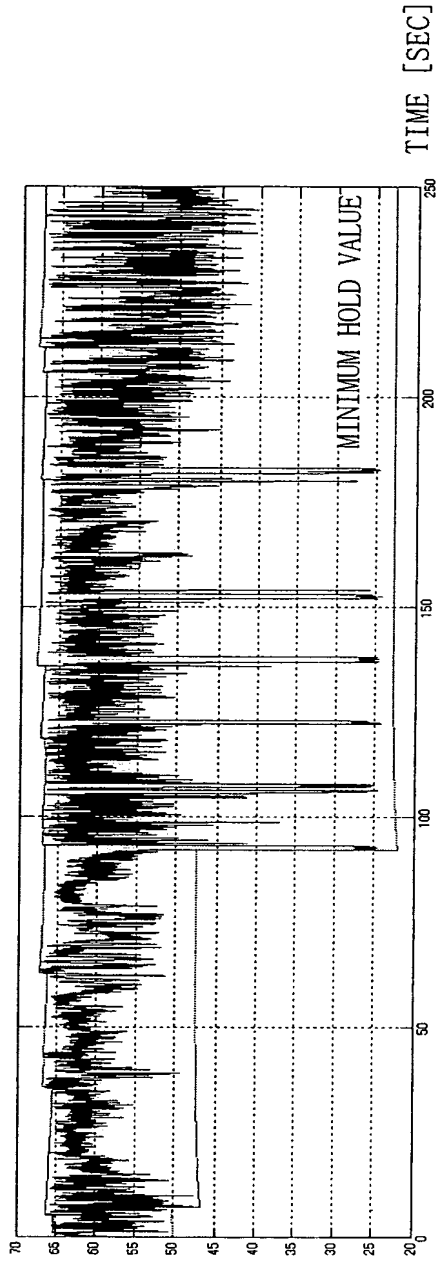

SENSITIVITY
[dB]
TIME [SEC]
MINIMUM HOLD VALUE
70
65
60
55
50
45
40
35
30
25
20
0
50
100
150
200
250

FIG. 4B

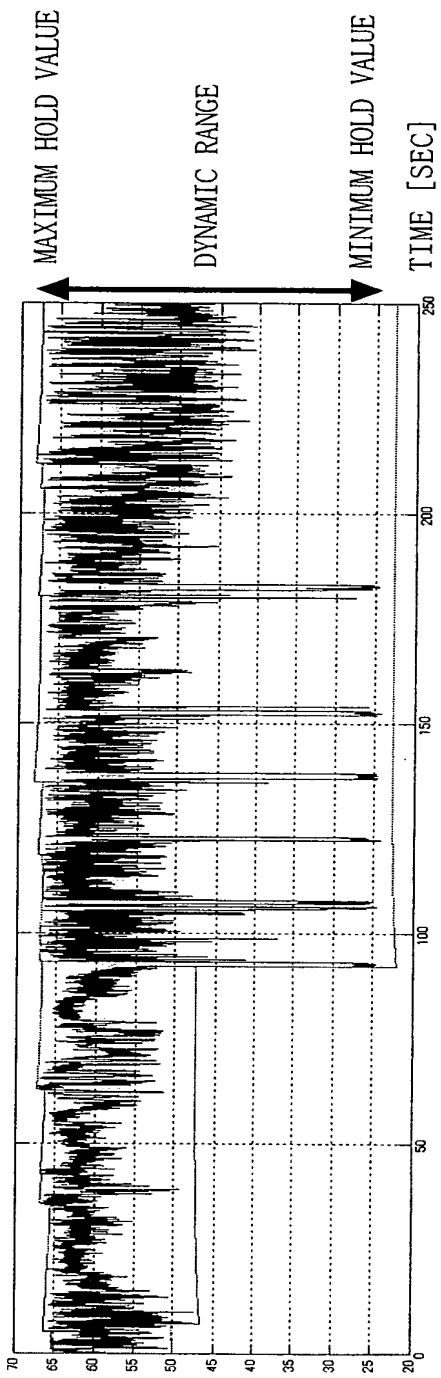

MAXIMUM HOLD VALUE
DYNAMIC RANGE
MINIMUM HOLD VALUE
SENSITIVITY
[dB]
TIME [SEC]
70
65
60
55
50
45
40
35
30
25
20
0
50
100
150
200
250

FIG. 5

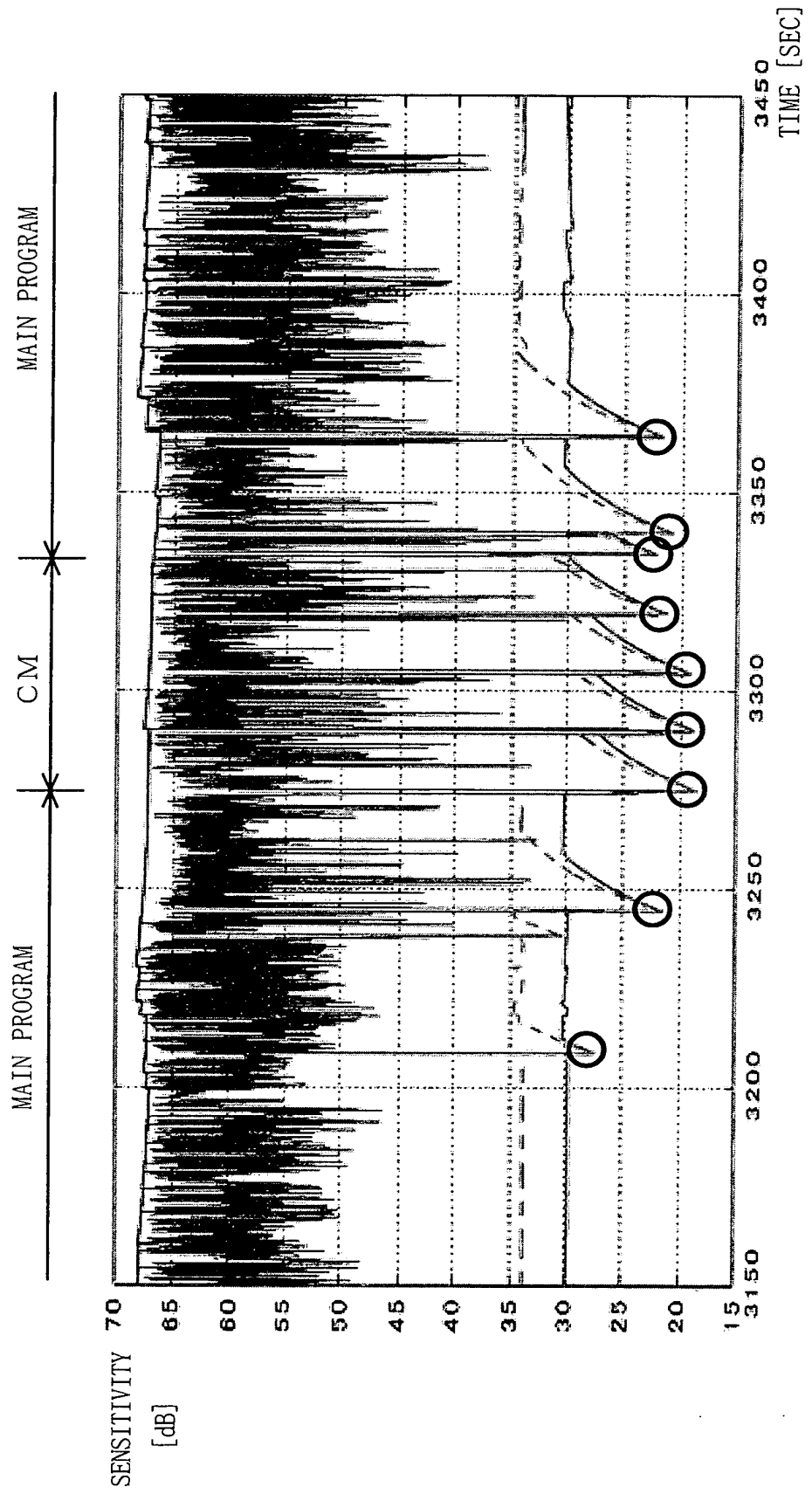

MAIN PROGRAM
CM
MAIN PROGRAM
SENSITIVITY [dB]
70
65
60
55
50
45
40
35
30
25
20
15
3150
3200
3250
3300
3350
3400
3450
TIME [SEC]

FIG. 6

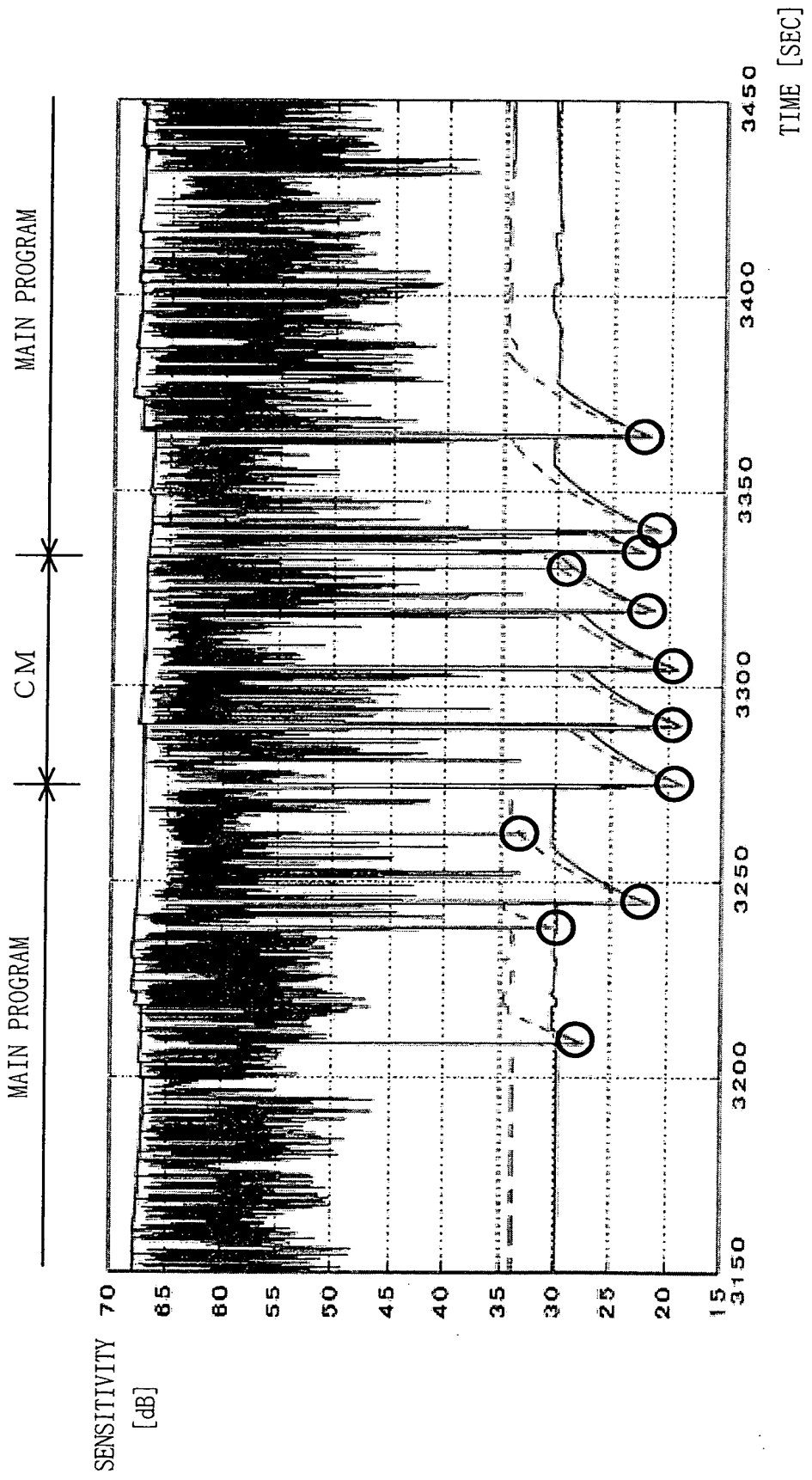

MAIN PROGRAM
CM
MAIN PROGRAM
SENSITIVITY [dB]
70
65
60
55
50
45
40
35
30
25
20
15
3150
3200
3250
3300
3350
3400
3450
TIME [SEC]

FIG. 7

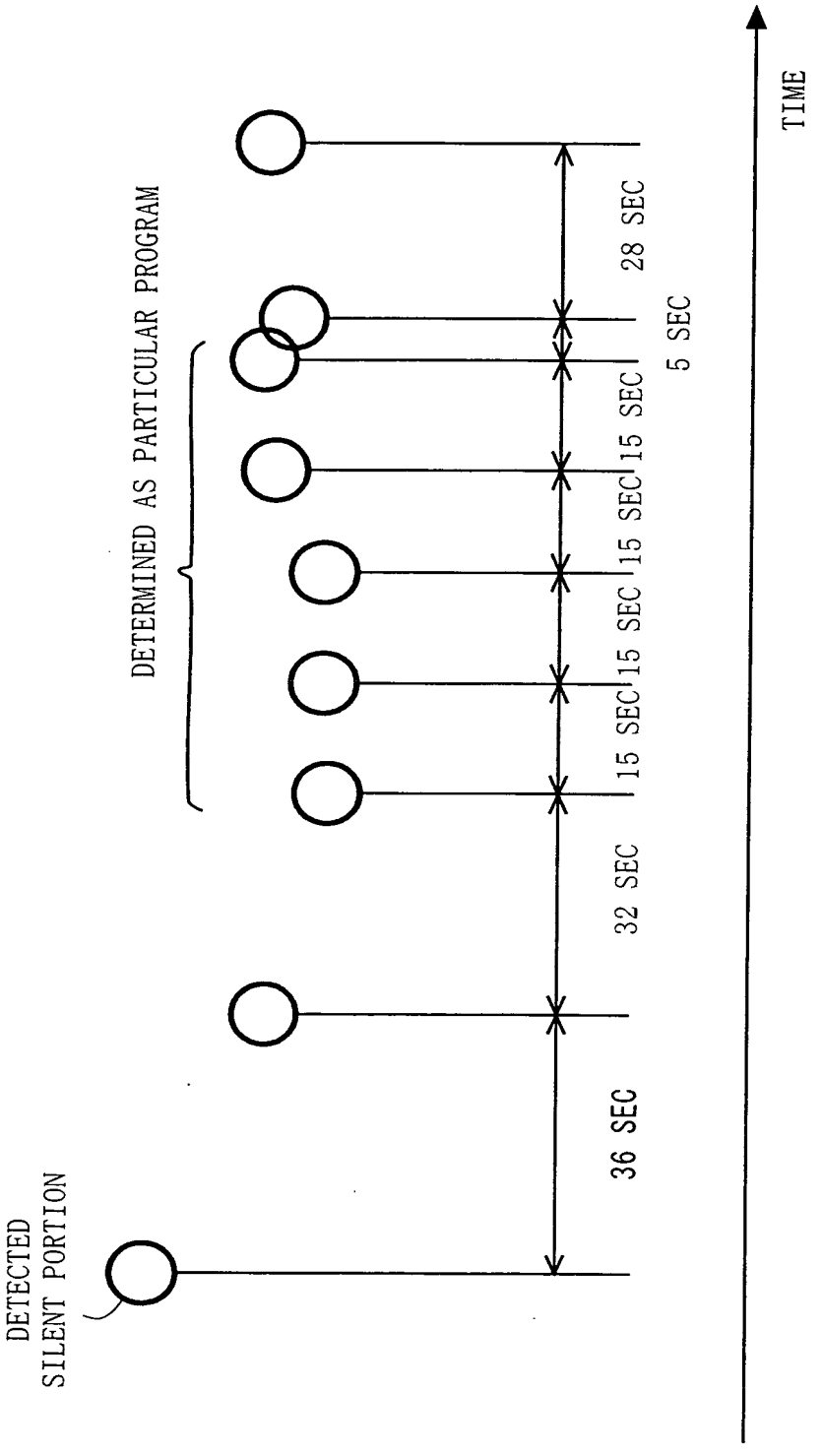

DETECTED
SILENT PORTION
DETERMINED AS PARTICULAR PROGRAM
36 SEC
32 SEC
15 SEC
15 SEC
15 SEC
15 SEC
5 SEC
28 SEC
TIME

FIG. 8

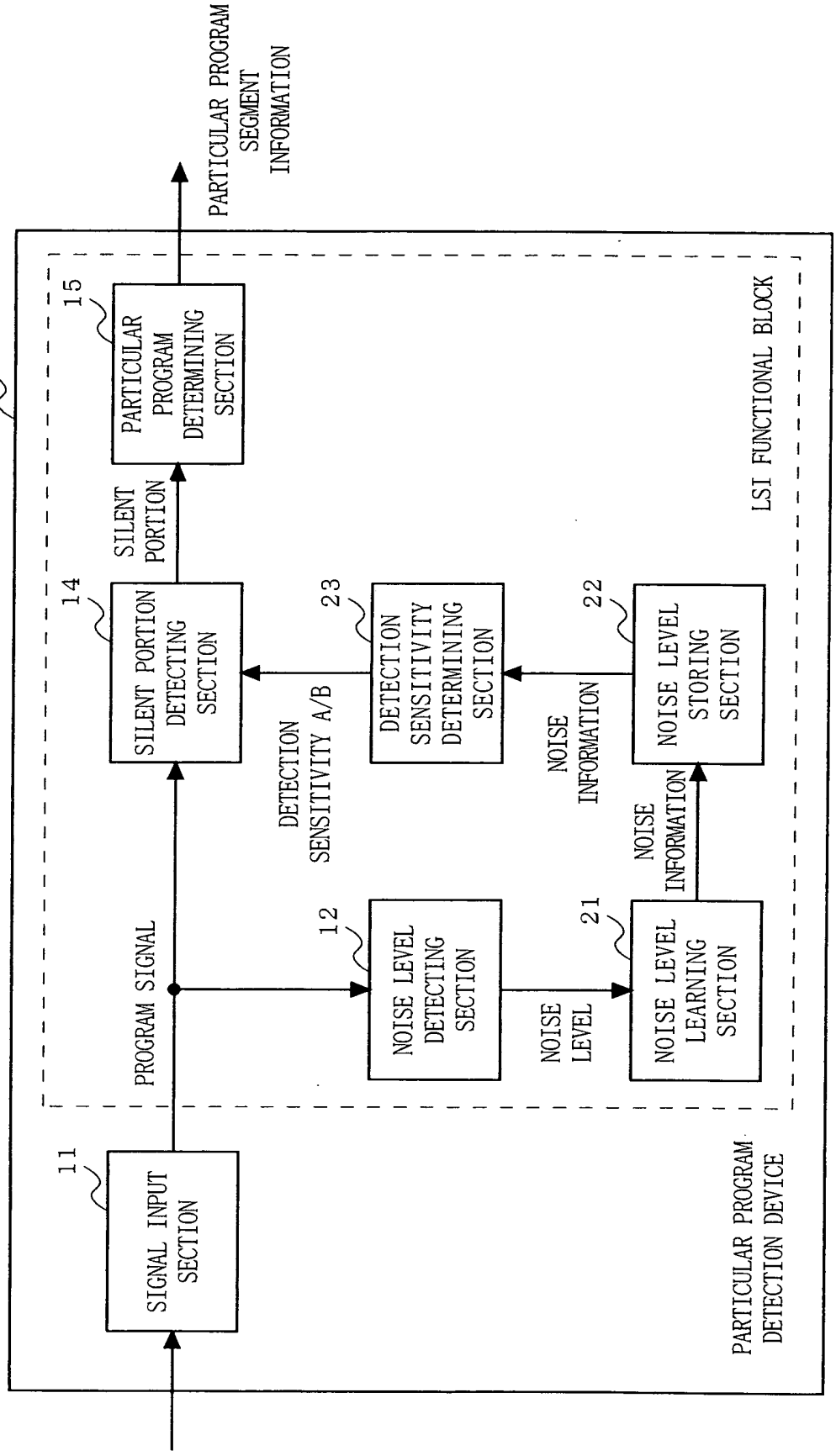

PARTICULAR PROGRAM SEGMENT INFORMATION
2
15
PARTICULAR PROGRAM DETERMINING SECTION
LSI FUNCTIONAL BLOCK
SILENT PORTION
14
SILENT PORTION DETECTING SECTION
23
DETECTION SENSITIVITY DETERMINING SECTION
22
NOISE LEVEL STORING SECTION
DETECTION SENSITIVITY A/B
NOISE INFORMATION
NOISE INFORMATION
PROGRAM SIGNAL
12
NOISE LEVEL DETECTING SECTION
21
NOISE LEVEL LEARNING SECTION
NOISE LEVEL
11
SIGNAL INPUT SECTION
PARTICULAR PROGRAM DETECTION DEVICE

FIG. 9

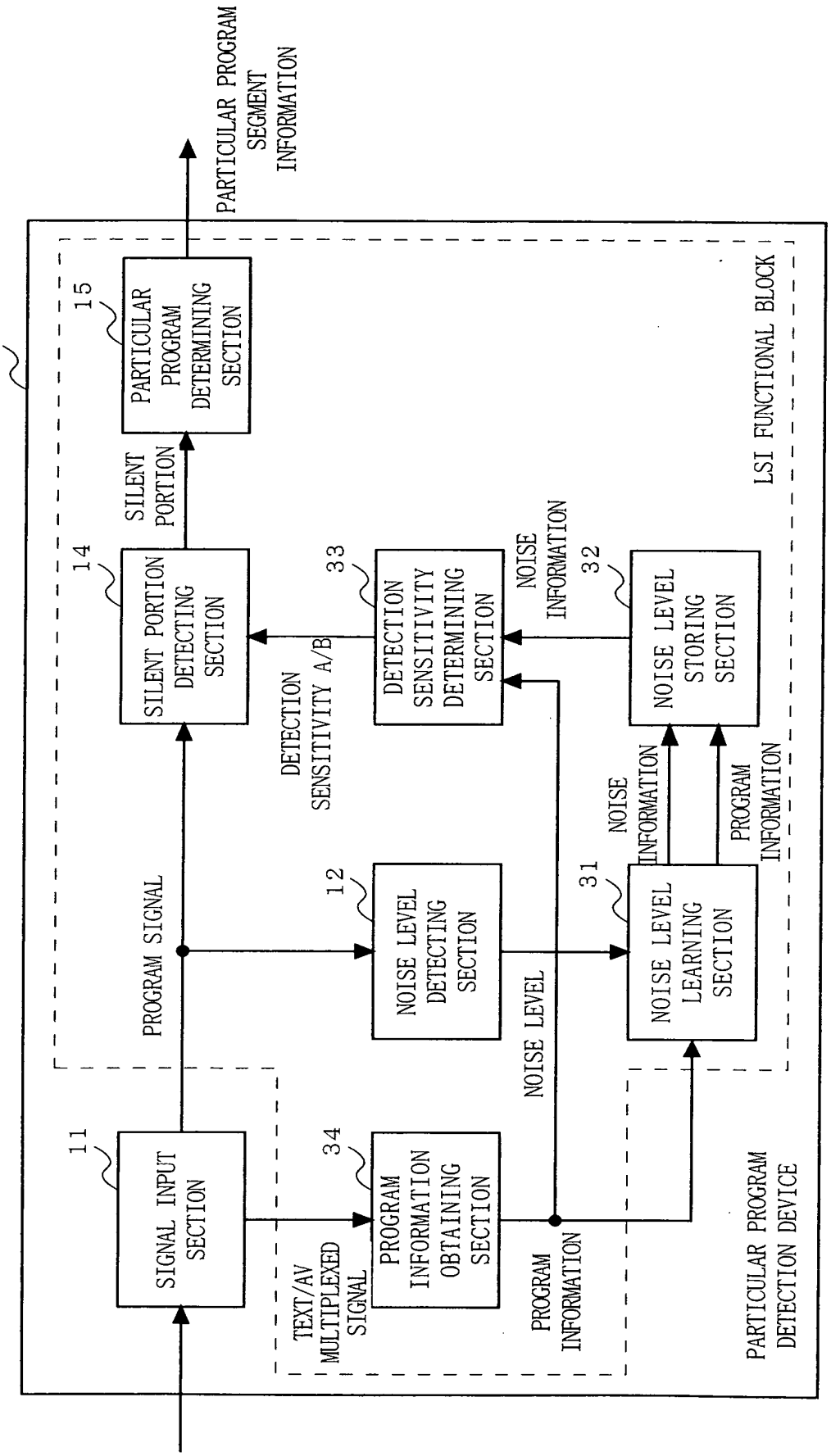
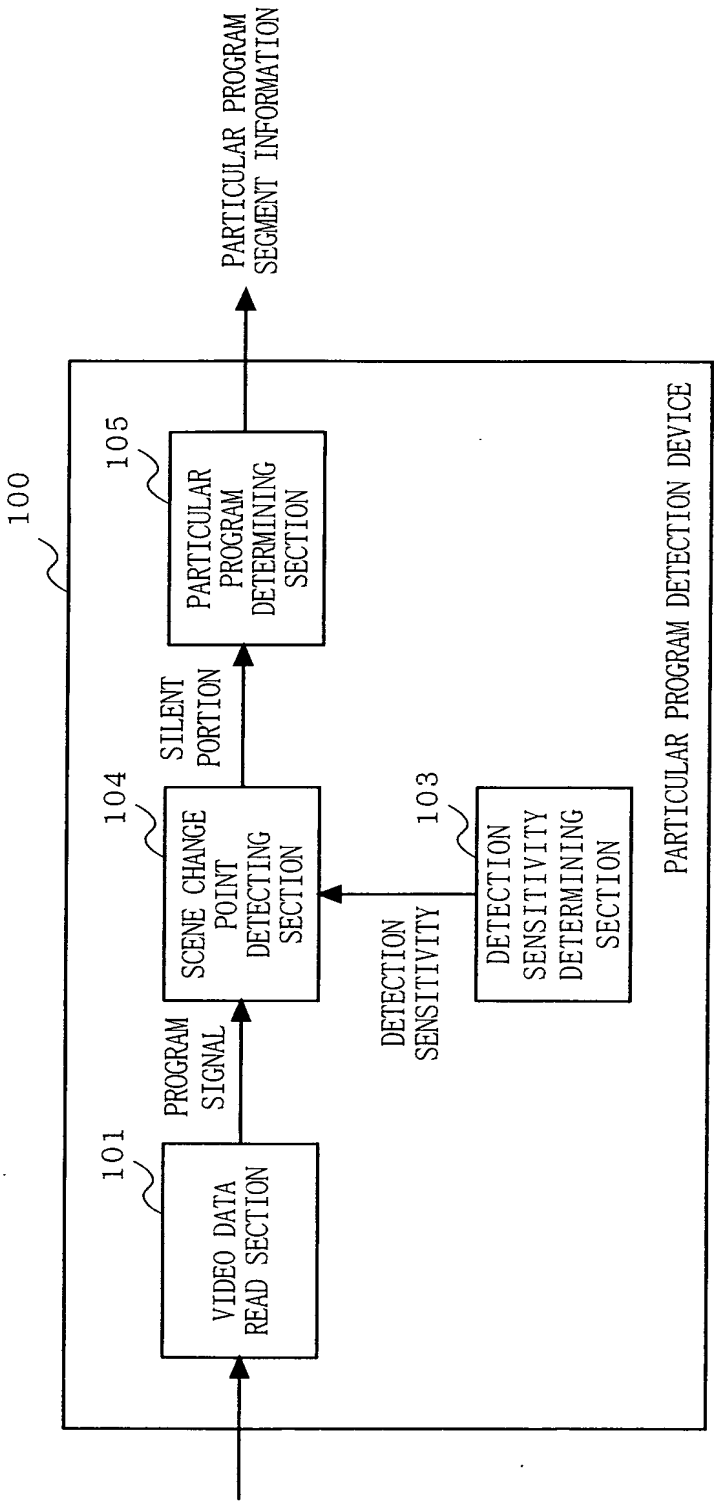

3
PARTICULAR PROGRAM SEGMENT INFORMATION
LSI FUNCTIONAL BLOCK
15
PARTICULAR PROGRAM DETERMINING SECTION
SILENT PORTION
14
SILENT PORTION DETECTING SECTION
33
DETECTION SENSITIVITY DETERMINING SECTION
NOISE INFORMATION
32
NOISE LEVEL STORING SECTION
DETECTION SENSITIVITY A/B
PROGRAM SIGNAL
12
NOISE LEVEL DETECTING SECTION
31
NOISE LEVEL LEARNING SECTION
NOISE INFORMATION
PROGRAM INFORMATION
NOISE LEVEL
11
SIGNAL INPUT SECTION
34
PROGRAM INFORMATION OBTAINING SECTION
TEXT/AV MULTIPLEXED SIGNAL
PROGRAM INFORMATION
PARTICULAR PROGRAM DETECTION DEVICE

FIG. 10


PARTICULAR PROGRAM SEGMENT INFORMATION
100
105
PARTICULAR PROGRAM DETERMINING SECTION
SILENT PORTION
104
SCENE CHANGE POINT DETECTING SECTION
DETECTION SENSITIVITY
103
DETECTION SENSITIVITY DETERMINING SECTION
PROGRAM SIGNAL
101
VIDEO DATA READ SECTION
PARTICULAR PROGRAM DETECTION DEVICE